FCC ID: 2BF7H-BM02

Product Name:	Sonic electric toothbrush		
Trade Mark:	BRUSHMO		
Model No.:	BM02 BM04, BM05, BM06, BM07, BM08, BM09, BM10, BM11, BM12, BM022		
Model Difference:	The product's different for model number and appearance color.		
Transmitting mode	Keep the EUT in continuously wireless charging mode		
	DC 5V/9V/12V from charger		
Power supply:	Wireless Output: 1.5W		
	Model No.:FX202U		
Charger:	Input: 100-240V~ 50/60Hz0.7A		
J J	USB-C: 5V/3A, 9V/2.22A, 12V/1.67A 20W Max.		
Date of Receipt:	Apr. 28, 2024		
Test Date:	Apr. 28, 2024 - May. 14, 2024		
Date of Report: May. 14, 2024			

Test Modes:				
Mode1.	Wireless Output Mode(1.5W)			
Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is				

Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

RF Exposure Evaluation

1 Measuring Standard

KDB 680106 D01 RF Exposure Wireless Power Transfer v04

2 Requirements

- 3 According to the item 5 of KDB 680106 v04:
- 4 Inductive wireless power transfer applications that meet all of the following requirements are excluded from
- 5 submitting an RF exposure evaluation.

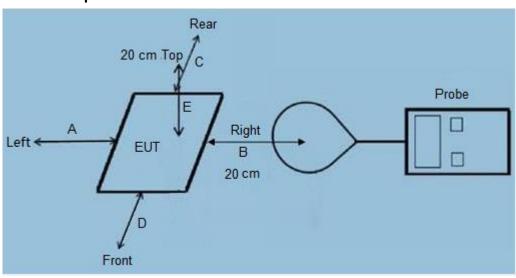
Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	'
0.3-3.0	0.3-3.0 614		*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500 / 1500-100,000 /		/	f/300	6
		1	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	1	f/1500	30
1500-100,000	/	/	1.0	30

6 Test Setup



F=frequency in MHz
"=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

7 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

8 Description of Support Units

Model No.:FX202U
Input: 100-240V~ 50/60Hz0.7A
USB-C: 5V/3A, 9V/2.22A, 12V/1.67A 20W Max.

9 Test Instruments list

Toot Equipment	Manufacturer	Model No.	SN.	Cal.Date	Cal.Due date
Test Equipment	Manufacturer	woder No.		(mm-dd-yy)	(mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	June. 25 2023	June. 26 2024
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	June. 25 2023	June. 26 2024
Field Probe	ETS	HI-6105	/	June. 25 2023	June. 26 2024
Laser Data Interface	ETS	HI-6113	/	June. 25 2023	June. 26 2024

10 Test Uncertainty

E-Filed Strength : ± 0.08 V/m H-Filed Strength : ± 0.02 A/m

uT : ±0.01

Note: The field intensity value A/m in the report is converted from uT, and the formula is as follows:

uT to A/m $A/m = \frac{\mu T}{1.25}$

11 Test Result

E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(V/m)
0.115-0.205	0.14	0.13	0.14	0.15	614

E-Filed Strength at 20 cm from the top of the EUT (V/m)

Frequency Range	Test	Limits	
(MHz)	Position E	(V/m)	
0.115-0.205	0.13	614	

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(A/m)
0.115-0.205	0.04	0.13	0.06	0.15	1.63

H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)	
0.115-0.205	0.18	1.63	

12 Test Set-up Photo

